



## SEQUENCE LISTING

<110> MORGAN, BRYAN P.  
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HINCHLIFFE, STEWART J.  
VAN DEN BERG, CARMEN W.

<120> MODIFIED BIOLOGICAL MATERIAL

<130> WN/KH/JJ/WCM

<140> 09/673,032

<141> 2000-12-06

<150> PCT/GB99/01085

<151> 1999-04-08

<150> GB 9807520.3

<151> 1998-04-09

<160> 24

<170> PatentIn Ver. 2.1

<210> 1

<211> 123

<212> PRT

<213> Porcus sp.

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20 25 30

Asn Pro Ala Gly Ser Cys Thr Thr Ala Met Asn Cys Ser His Asn Gln  
35 40 45

Asp Ala Cys Ile Phe Val Glu Ala Val Pro Pro Lys Thr Tyr Tyr Gln  
50 55 60

Cys Trp Arg Phe Asp Glu Cys Asn Phe Asp Phe Ile Ser Arg Asn Leu  
65 70 75 80

Ala Glu Lys Lys Leu Lys Tyr Asn Cys Cys Arg Lys Asp Leu Cys Asn  
85 90 95

Lys Ser Asp Ala Thr Ile Ser Ser Gly Lys Thr Ala Leu Leu Val Ile  
100 105 110

Leu Leu Leu Val Ala Thr Trp His Phe Cys Leu  
115 120

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<211> 773

<212> DNA

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<213> Porcus sp.

<220>

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<222> (90)..(458)

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Met Gly Ser Lys Gly Gly Phe Ile  
1 5

ttg ctc tgg ctc ctg tcc atc ctg gct gtt ctc tgc cac tta ggt cac 161  
Leu Leu Trp Leu Leu Ser Ile Leu Ala Val Leu Cys His Leu Gly His  
10 15 20

agc ctg cag tgc tat aac tgt atc aac cca gct ggt agc tgc act acg 209  
Ser Leu Gln Cys Tyr Asn Cys Ile Asn Pro Ala Gly Ser Cys Thr Thr  
25 30 35 40

gcc atg aat tgt tca cat aat cag gat gcc tgt atc ttc gtt gaa gcc 257  
Ala Met Asn Cys Ser His Asn Gln Asp Ala Cys Ile Phe Val Glu Ala  
45 50 55

gtg cca ccc aaa act tac tac cag tgt tgg agg ttc gat gaa tgc aat 305  
Val Pro Pro Lys Thr Tyr Tyr Gln Cys Trp Arg Phe Asp Glu Cys Asn  
60 65 70

ttc gat ttc att tcg aga aac cta gcg gag aag aag ctg aag tac aac 353  
Phe Asp Phe Ile Ser Arg Asn Leu Ala Glu Lys Lys Leu Lys Tyr Asn  
75 80 85

tgc tgc cgg aag gac ctg tgt aac aag agt gat gcc acg att tca tca 401  
Cys Cys Arg Lys Asp Leu Cys Asn Lys Ser Asp Ala Thr Ile Ser Ser  
90 95 100

ggg aaa acc gct ctg ctg gtg atc ctg ctg ctg gta gca acc tgg cac 449  
Gly Lys Thr Ala Leu Leu Val Ile Leu Leu Val Ala Thr Trp His  
105 110 115 120

ttt tgt ctc taactgtaca ccaggagagt ttctctctcaa ctctctctgt 498  
Phe Cys Leu

ctctctgttc ctatttccca tgctgcggtg ttccaaaggc tgtgtatgct ccagcttctt 558

cctgttggga aggactaaac ctagcttgag cactttggat tagagagaga aactttgagc 618

gactttgaag accaggcctg ttggcagaga agacctgtca gaggggaaac gttttaagag 678

tgaagcacag gtgatttgag cgaggcctat gcgtcttctt ctgctcttgg caggaccagc 738

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 3

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17

<210> 4

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<212> DNA

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<223> Description of Artificial Sequence: Primer

<400> 4

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<210> 5

<211> 36

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<223> Description of Artificial Sequence: Primer

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36

<210> 6

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

<400> 6

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18

<210> 7

<211> 18

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<223> Description of Artificial Sequence: Primer

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C2  
Ant

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<210> 13  
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<210> 14  
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27

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 ccgcgcgcca tgagtcccc gccgcggagc gccccgcggg tgaggcgccct aatgggcgga 180  
 cagacgcgcg cgcgctgctg gctgctgctg ctgctgctgt gtatcccggc tgcgcagggt 240  
 gactgcagcc ttccaccgca tgtacctaag gcccaaccag atttgcgagg tcttgcaagt 300  
 tttcctgaac aaaccacaat aacatacaaa tgtaacaaag gctttgtcaa agttcctggc 360  
 atggcagact cagtgtctctg tcttaatgat aaatgggtcag aagttgcaga attttgtaat 420  
 cgtagctgtg atgttccaac caggctacat tttgcatctc ttaaaaagtc ttacagcaaa 480  
 cagaattatt tcccagaggg tttcaccgtg gaatatgagt gccgtaaggg ctataaaaagg 540  
 gatcttactc tatcagaaaa actaacttgc cttcagaatt ttacgtggtc caaacctgat 600  
 gaattttgca aaaaaaaaca atgtccgact cctgggagaa taaaaaatgg tcatgtcaat 660  
 ataacaactg acttgttatt tggcgcatcc atctttttct catgtaacgc aggggtacaga 720  
 ctagttgggt caacttctag ttactgtttt gccatagcaa atgatgttga gtggagtgat 780  
 ccattgccag attgccaaga aatttctcca actgtcaaag ccataccagc tgttgagaaa 840  
 cccatcacag taaatttttc agcaacaaag tatccagcta tttccagggc cacaacgagt 900  
 tttcattcaa gtacatctaa aaatcgagga aaccttctt caggcatgag aatcatgtcg 960  
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 aacaaagccg ttaatgttgc attttataat ttacctgcga ctggcgatgc cgcagatgta 1140  
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 tagtaaccat tggctagctg acttagccaa agaagagtta agaagaaagt gcacacaagt 1260  
 acacagaata ttttcagttt cttaaaactt tcagggtggga gtggacatag tttgtggtag 1320  
 tgntcttcgn tttgcatggg ttcatgtgct ctaagggnaca taggaatgca cagaaccnaa 1380  
 gagaaacaaa tctatcctga aantacatcc tcaacacttc taanactctt ggaaatngaa 1440  
 caagntcata agattgggag caattacttt cccaaaaggg tgagaaaaat ggagaaat 1500  
 ggtcatgggt agnaattttt gaaaaangaa acccnaaagg gganttttcc ccccaaaagg 1560  
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 cgggncccat tttccct 1637

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 <212> DNA  
 <213> Porcus sp.

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 gactgcagcc ttccaccgca tgtacctaag gcccaaccag atttgcgagg tcttgcaagt 120  
 tttcctgaac aaaccacaat aacatacaaa tgtaacaaag gctttgtcaa agttcctggc 180  
 atggcagact cagtgtctctg tcttaatgat aaatgggtcag aagttgcaga attttgtaat 240  
 cgtagctgtg atgttccaac caggctacat tttgcatctc ttaaaaagtc ttacagcaaa 300  
 cagaattatt tcccagaggg tttcaccgtg gaatatgagt gccgtaaggg ctataaaaagg 360  
 gatcttactc tatcagaaaa actaacttgc cttcagaatt ttacgtggtc caaacctgat 420  
 gaattttgca aaaaaaaaca atgtccgact cctgggagaa taaaaaatgg tcatgtcaat 480  
 ataacaactg acttgttatt tggcgcatcc atctttttct catgtaacgc aggggtacaga 540  
 ctagttgggt caacttctag ttactgtttt gccatagcaa atgatgttga gtggagtgat 600  
 ccattgccag aatgccaaga aatttctcca actgtcaaag ccataccagc tgttgagaaa 660  
 cccatcacag taaatttttc aggtacccaa gccctatcat ctcctcagaa accctccaca 720  
 gcaataactc tagctacaga gttactacca actcctcagg aaccaccac agtaaatgtt 780  
 ccagatagta aagccatata atctcctcag aaacctcca cagtaaatat tccagctaca 840  
 gacttactac caactcctca ggaacccacc acagtaaagt ttccagatag taaagccata 900  
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aggaacccac cacagtaa

<210> 17

<211> 327

<212> PRT

<213> Porcus sp.

<400> 17

Met Gly Gly Gln Thr Pro Pro Pro Leu Leu Leu Leu Leu Leu Leu  
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 20 25 30  
 Asn Ala Gln Pro Asp Leu Arg Gly Leu Ala Ser Phe Pro Glu Gln Thr  
 35 40 45  
 Thr Ile Thr Tyr Lys Cys Asn Lys Gly Phe Val Lys Val Pro Gly Met  
 50 55 60  
 Ala Asp Ser Val Leu Cys Leu Asn Asp Lys Trp Ser Glu Val Ala Glu  
 65 70 75 80  
 Phe Cys Asn Arg Ser Cys Asp Val Pro Thr Arg Leu His Phe Ala Ser  
 85 90 95  
 Leu Lys Lys Ser Tyr Ser Lys Gln Asn Tyr Phe Pro Glu Gly Phe Thr  
 100 105 110  
 Val Glu Tyr Glu Cys Arg Lys Gly Tyr Lys Arg Asp Leu Thr Leu Ser  
 115 120 125  
 Glu Lys Leu Thr Cys Leu Gln Asn Phe Thr Trp Ser Lys Pro Asp Glu  
 130 135 140  
 Phe Cys Lys Lys Lys Gln Cys Pro Thr Pro Gly Glu Leu Lys Asn Gly  
 145 150 155 160  
 His Val Asn Ile Thr Thr Asp Leu Leu Phe Gly Ala Ser Ile Phe Phe  
 165 170 175  
 Ser Cys Asn Ala Gly Tyr Arg Leu Val Gly Ala Thr Ser Ser Tyr Cys  
 180 185 190  
 Phe Ala Ile Ala Asn Asp Val Glu Trp Ser Asp Pro Leu Pro Asp Cys  
 195 200 205  
 Gln Glu Ile Ser Pro Thr Val Lys Ala Ile Pro Ala Val Glu Lys Pro  
 210 215 220  
 Ile Thr Val Asn Phe Pro Ala Thr Lys Tyr Pro Ala Ile Pro Arg Ala  
 225 230 235 240  
 Thr Thr Ser Phe His Ser Ser Thr Ser Lys Asn Arg Gly Asn Pro Ser  
 245 250 255



Ser Gly Met Arg Ile Met Ser Ser Gly Thr Met Leu Leu Ile Ala Gly  
                   260                                  265                                  270

Gly Val Ala Val Ile Ile Ile Ile Val Ala Leu Ile Leu Ala Lys Gly  
                   275                                  280                                  285

Phe Trp His Tyr Gly Lys Ser Gly Ser Tyr His Thr His Glu Asn Asn  
                   290                                  295                                  300

Lys Ala Val Asn Val Ala Phe Tyr Asn Leu Pro Ala Thr Gly Asp Ala  
                   305                                  310                                  315                                  320

Ala Asp Val Arg Pro Gly Asn  
                                   325

<210> 18

<211> 325

<212> PRT

<213> Porcus sp.

<400> 18

His Glu Pro Pro Pro Leu Leu Leu Leu Leu Leu Leu Cys Ile Pro  
                   1                                  5                                  10                                  15

Ala Ala Gln Gly Asp Cys Ser Leu Pro Pro Asp Val Pro Asn Ala Gln  
                                   20                                  25                                  30

Pro Asp Leu Arg Gly Leu Ala Ser Phe Pro Glu Gln Thr Thr Ile Thr  
                   35                                  40                                  45

Tyr Lys Cys Asn Lys Gly Phe Val Lys Val Pro Gly Met Ala Asp Ser  
                   50                                  55                                  60

Val Leu Cys Leu Asn Asp Lys Trp Ser Glu Val Ala Glu Phe Cys Asn  
                   65                                  70                                  75                                  80

Arg Ser Cys Asp Val Pro Thr Arg Leu His Phe Ala Ser Leu Lys Lys  
                                   85                                  90                                  95

Ser Tyr Ser Lys Gln Asn Tyr Phe Pro Glu Gly Phe Thr Val Glu Tyr  
                   100                                  105                                  110

Glu Cys Arg Lys Gly Tyr Lys Arg Asp Leu Thr Leu Ser Glu Lys Leu  
                   115                                  120                                  125

Thr Cys Leu Gln Asn Phe Thr Trp Ser Lys Pro Asp Glu Phe Cys Lys  
                   130                                  135                                  140

Lys Lys Gln Cys Pro Thr Pro Gly Glu Leu Lys Asn Gly His Val Asn  
                   145                                  150                                  155                                  160

Ile Thr Thr Asp Leu Leu Phe Gly Ala Ser Ile Phe Phe Ser Cys Asn  
                                   165                                  170                                  175

Ala Gly Tyr Arg Leu Val Gly Ala Thr Ser Ser Tyr Cys Phe Ala Ile  
                   180                                  185                                  190

Ala Asn Asp Val Glu Trp Ser Asp Pro Leu Pro Glu Cys Gln Glu Ile  
195 200 205

Ser Pro Thr Val Lys Ala Ile Pro Ala Val Glu Lys Pro Ile Thr Val  
210 215 220

Asn Phe Pro Gly Thr Lys Ala Leu Ser Ser Pro Gln Lys Pro Ser Thr  
225 230 235 240

Ala Asn Thr Leu Ala Thr Glu Leu Leu Pro Thr Pro Gln Glu Pro Thr  
245 250 255

Thr Val Asn Val Pro Asp Ser Lys Ala Ile Ser Ser Pro Gln Lys Pro  
260 265 270

Ser Thr Val Asn Thr Pro Ala Thr Asp Leu Leu Pro Thr Pro Gln Glu  
275 280 285

Pro Thr Thr Val Asn Val Pro Asp Ser Lys Ala Ile Ser Ser Ser Gln  
290 295 300

Lys Pro Ser Thr Val Asn Thr Pro Ala Gln Thr Tyr Tyr Gln Leu Leu  
305 310 315 320

Arg Asn Pro Pro Gln  
325

<210> 19

<211> 376

<212> PRT

<213> Homo sapiens

<400> 19

Pro Ser Val Pro Ala Ala Leu Pro Leu Leu Gly Glu Leu Pro Arg Leu  
1 5 10 15

Leu Leu Leu Val Leu Leu Cys Leu Pro Ala Val Trp Gly Asp Cys Gly  
20 25 30

Leu Pro Pro Asp Val Pro Asn Ala Gln Pro Ala Leu Glu Gly Arg Thr  
35 40 45

Ser Phe Pro Glu Asp Thr Val Ile Thr Tyr Lys Cys Glu Glu Ser Phe  
50 55 60

Val Lys Ile Pro Gly Glu Lys Asp Ser Val Thr Cys Leu Lys Gly Met  
65 70 75 80

Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg Ser Cys Glu Val Pro  
85 90 95

Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro Tyr Ile Thr Gln Asn  
100 105 110

Tyr Phe Pro Val Gly Thr Val Val Glu Tyr Glu Cys Arg Pro Gly Tyr  
115 120 125

C2  
Cont

Arg Arg Glu Pro Ser Leu Ser Pro Lys Leu Thr Cys Leu Gln Asn Leu  
 130 135 140  
 Lys Trp Ser Thr Ala Val Glu Phe Cys Lys Lys Lys Ser Cys Pro Asn  
 145 150 155 160  
 Pro Gly Glu Ile Arg Asn Gly Gln Ile Asp Val Pro Gly Gly Ile Leu  
 165 170 175  
 Phe Gly Ala Thr Ile Ser Phe Ser Cys Asn Thr Gly Tyr Lys Leu Phe  
 180 185 190  
 Gly Ser Thr Ser Ser Phe Cys Leu Ile Ser Gly Ser Ser Val Gln Trp  
 195 200 205  
 Ser Asp Pro Leu Pro Glu Cys Arg Glu Ile Tyr Cys Pro Ala Pro Pro  
 210 215 220  
 Gln Ile Asp Asn Gly Ile Ile Gln Gly Glu Arg Asp His Tyr Gly Tyr  
 225 230 235 240  
 Arg Gln Ser Val Thr Tyr Ala Cys Asn Lys Gly Phe Thr Met Ile Gly  
 245 250 255  
 Glu His Ser Ile Tyr Cys Thr Val Asn Asn Asp Glu Gly Glu Trp Ser  
 260 265 270  
 Gly Pro Pro Pro Glu Cys Arg Gly Lys Ser Leu Thr Ser Lys Val Pro  
 275 280 285  
 Pro Thr Val Gln Lys Pro Thr Thr Val Asn Val Pro Thr Thr Glu Val  
 290 295 300  
 Ser Pro Thr Ser Gln Lys Thr Thr Thr Lys Thr Thr Thr Pro Asn Ala  
 305 310 315 320  
 Gln Ala Thr Arg Ser Thr Pro Val Ser Arg Thr Thr Lys His Phe His  
 325 330 335  
 Glu Thr Thr Pro Asn Lys Gly Ser Gly Thr Thr Ser Gly Thr Thr Arg  
 340 345 350  
 Leu Leu Ser Gly His Thr Cys Phe Thr Leu Thr Gly Leu Leu Gly Thr  
 355 360 365  
 Leu Val Thr Met Gly Leu Leu Thr  
 370 375

&lt;210&gt; 20

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 20

Met Gly Ile Gln Gly Gly Ser Val Leu Phe Gly Leu Leu Leu Val Leu  
 1 5 10 15

Ala Val Phe Cys His Ser Gly His Ser Leu Gln Cys Tyr Asn Cys Pro  
 20 25 30  
 Asn Pro Thr Ala Asp Cys Lys Thr Ala Val Asn Cys Ser Ser Asp Phe  
 35 40 45  
 Asp Ala Cys Leu Ile Thr Lys Ala Gly Leu Gln Val Tyr Asn Lys Cys  
 50 55 60  
 Trp Lys Phe Glu His Cys Asn Phe Asn Asp Val Thr Thr Arg Leu Arg  
 65 70 75 80  
 Glu Asn Glu Leu Thr Tyr Tyr Cys Cys Lys Lys Asp Leu Cys Asn Phe  
 85 90 95  
 Asn Glu Gln Leu Glu Asn Gly Gly Thr Ser Leu Ser Glu Lys Thr Val  
 100 105 110  
 Leu Leu Leu Val Thr Pro Phe Leu Ala Ala Ala Trp Ser Leu His Pro  
 115 120 125

<210> 21  
 <211> 126  
 <212> PRT  
 <213> Rattus sp.

<400> 21  
 Met Arg Ala Arg Arg Gly Phe Ile Leu Leu Leu Leu Leu Ala Val Leu  
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 Cys Ser Thr Gly Val Ser Leu Arg Cys Tyr Asn Cys Leu Asp Pro Val  
 20 25 30  
 Ser Ser Cys Lys Thr Asn Ser Thr Cys Ser Pro Asn Leu Asp Ala Cys  
 35 40 45  
 Leu Val Ala Val Ser Gly Lys Gln Val Tyr Gln Gln Cys Trp Arg Phe  
 50 55 60  
 Ser Asp Cys Asn Ala Lys Phe Ile Leu Ser Arg Leu Glu Ile Ala Asn  
 65 70 75 80  
 Val Gln Tyr Arg Cys Cys Gln Ala Asp Leu Cys Asn Lys Ser Phe Glu  
 85 90 95  
 Asp Lys Pro Asn Asn Gly Ala Ile Ser Leu Leu Gly Lys Thr Ala Leu  
 100 105 110  
 Leu Val Thr Ser Val Leu Ala Ala Ile Leu Lys Pro Cys Phe  
 115 120 125

<210> 22  
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 <212> PRT  
 <213> Murine sp.

C2  
 Cont

&lt;400&gt; 22

Met Arg Ala Gln Arg Gly Leu Ile Leu Leu Leu Leu Leu Ala Val  
 1 5 10 15

Phe Cys Ser Thr Ala Val Ser Leu Thr Cys Tyr His Cys Phe Gln Pro  
 20 25 30

Val Val Ser Ser Cys Asn Met Asn Ser Thr Cys Ser Pro Asp Gln Asp  
 35 40 45

Ser Cys Leu Tyr Ala Val Ala Gly Met Gln Val Tyr Gln Arg Cys Trp  
 50 55 60

Lys Gln Ser Asp Cys His Gly Glu Ile Ile Met Asp Gln Leu Glu Glu  
 65 70 75 80

Thr Lys Leu Lys Phe Arg Cys Cys Gln Phe Asn Leu Cys Asn Lys Ser  
 85 90 95

Asp Gly Ser Leu Gly Lys Thr Pro Leu Leu Gly Thr Ser Val Leu Val  
 100 105 110

Ala Ile Leu Asn Leu Cys Phe Leu Ser His Leu  
 115 120

&lt;210&gt; 23

&lt;211&gt; 6

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 23

Cys Cys Lys Lys Asp Leu  
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&lt;210&gt; 24

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Illustrative  
 peptide

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (7)

&lt;223&gt; Any amino acid

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (10)

&lt;223&gt; Any amino acid

&lt;400&gt; 24

Asp Cys Gly Leu Pro Pro Xaa Val Pro Xaa Ala Gln Pro Ala  
 1 5 10

C2  
 Cancel